PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference P01-2533WO/1 International application No. FOR FURTHER see Form PCT/ISA/220 as well as, where applicable, item 5 below. International filing date (day/month/year) (Earliest) Priority Date (day/month/year)										
P01-2533WO/1										
International application No. International filing date (day/month/year) (Earliest) Priority Date (day/month/year)										
PCT/EP2010/054050 26/03/2010 31/03/2009										
Applicant										
BOEHRINGER INGELHEIM INTERNATIONAL GMBH										
This international search report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.										
This international search report consists of a total of sheets.										
X It is also accompanied by a copy of each prior and document cited in this report.										
This also accompanied by a copy of each prior art accument ence in this report.										
Basis of the report										
a. With regard to the language, the international search was carried out on the basis of:										
X the international application in the language in which it was filed										
a translation of the international application into, which is the language of a translation furnished for the purposes of international search (Rules 12.3(a) and 23.1(b))										
b. This international search report has been established taking into account the rectification of an obvious mistake										
authorized by or notified to this Authority under Rule 91 (Rule 43.6 <i>bis</i> (a)). c. With regard to any nucleotide and/or amino acid sequence disclosed in the international application, see Box No. I.										
2. Certain claims were found unsearchable (See Box No. II)										
3. Unity of invention is lacking (see Box No III)										
4. With regard to the title,										
the text is approved as submitted by the applicant										
X the text has been established by this Authority to read as follows:										
1-HETEROCYCLYL-1,5-DIHYDRO-PYRAZOLO[3,4-D]PYRIMIDIN-4-ONE DERIVATIVES AND										
THEIR USE AS PDE9A MODULATORS										
·										
5. With regard to the abstract,										
X the text is approved as submitted by the applicant										
the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box No. IV. The applicant										
may, within one month from the date of mailing of this international search report, submit comments to this Authority										
6. With regard to the drawings,										
a. the figure of the drawings to be published with the abstract is Figure No.										
as suggested by the applicant										
as selected by this Authority, because the applicant failed to suggest a figure										
as selected by this Authority, because this figure better characterizes the invention										
b. none of the figures is to be published with the abstract										

Form PCT/ISA/210 (first sheet) (July 2009)

INTERNATIONAL SEARCH REPORT

International application No PCT/EP2010/054050

A. CLASSI INV.	FICATION OF SUBJECT MATTER C07D487/04 A61K31/519		·						
ADD.		· .							
According to International Patent Classification (IPC) or to both national classification and IPC									
	SEARCHED								
Minimum do	ocumentation searched (classification system followed by classification	on symbols)	: "						
C07D			•						
Documentat	tion searched other than minimum documentation to the extent that s	uch documents are included in the fields se	parched						
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched									
Electronic data base consulted during the international search (name of data base and, where practical, search terms used)									
EPO-Internal, CHEM ABS Data, WPI Data, BEILSTEIN Data									
	bernar, onen Abb baca, mil baca, ber	-							
	•								
C. DOCUM	ENTS CONSIDERED TO BE RELEVANT								
Category*	Citation of document, with indication, where appropriate, of the rele	evant passages	Relevant to claim No.						
Α	WO 2004/018474 A (BAYER HEALTHCAR	E AG	1-23						
	[DE]; HENDRIX MARTIN [DE]; BOESS FRANK-GERHARD [DE)								
	4 March 2004 (2004-03-04)								
	the whole document								
Α	WO 2004/096811 A (PFIZER PROD INC [US]; 1-23								
BELL ANDREW SIMON [GB]; DENINNO MICHAEL -									
	PAUL [US) 11 November 2004 (2004-11-11)								
Į.	cited in the application the whole document								
V 5		. C. 1. C. T. S.							
X,P	WO 2009/121919 A1 (BOEHRINGER ING INT [DE]; GIOVANNINI RICCARĐO [DE		1-9, 11-23						
	DOERNER-ĆIOSS) 8 October 2009 (20	09-10-08)	11 23						
	the whole document; in particular, pages								
	265-272, examples 219-232 and 234								
Further documents are listed in the continuation of Box C. X See patent family annex.									
* Special categories of cited documents : "T" later document published after the international filing date or priority date and not in conflict with the application but									
	ent defining the general state of the art which is not lered to be of particular relevance	cited to understand the principle or the invention							
"E" earlier of filing of	document but published on or after the international late	"X" document of particular relevance; the c cannot be considered novel or cannot							
which	ent which may throw doubts on priority claim(s) or————————————————————————————————————	involve an inventive step when the do "Y" document of particular relevance; the c	cument is taken alone						
	n or other special reason (as specified) ent referring to an oral disclosure, use, exhibition or	cannot be considered to involve an involve and involve	ventive step when the						
other i	us to a person skilled								
		"&" document member of the same patent family							
Date of the	actual completion of the international search	Date of mailing of the International sea	гсп героп						
2	7 May 2010	06/07/2010							
Name and r	nailing address of the ISA/	Authorized officer							
European Patent Office, P.B. 5818 Patentlaan 2 NL – 2280 HV Rijswijk Tel. (+31-70) 340-2040,		5.4 5.4							
1	Fax: (+31-70) 340-3016	Fink, Dieter	· · ·						

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INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No
PCT/EP2010/054050

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